Appl. No. 09/811,360 Amendment dated October 6, 2005 Reply to Office Action mailed May 12, 2005 Attorney Docket No. 355004-991501

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (Previously presented) A total shoulder arthroplasty apparatus for recreating an anatomic proximal humeral configuration, comprising:

a stemless humeral head fixation configured for fixation to a flat cut proximal humeral surface, wherein the humeral head fixation includes a humeral head including a base surface configured for cement or ingrowth fixation, or both, and a rotationally-stabilizing, non-intramedullary base extension protruding therefrom including multiple fins configured for impaction into a cancellous region of the cut humeral surface, wherein the base surface of the humeral head is configured to contact or substantially mate with the cut humeral surface when coupled therewith and the non-intramedullary base extension is impacted into the cancellous region, and

wherein the multiple fins are uniformly planar along their entire extents and directly intersect at a center of the base surface, said center having a diameter that is approximately equal to a thickness of each of said fins, such that each said multiple planar fin protrudes radially along a plane from the center of the base surface where it intersects with each of the other fins.

Claim 2 (Cancelled)

Claim 3 (Cancelled)

Claim 4 (Previously presented): The apparatus of Claim 1, wherein said multiple intersecting fins form a cruciform shape.

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Claim 5 (Previously presented): The apparatus of Claim 1, wherein the shape of one or more of said multiple fins is plano-triangular.

Claim 6 (Previously presented): The apparatus of Claim 1, wherein the protruding base extension further includes at least one linear extension.

Claim 7 (Cancelled)

Claim 8 (Previously presented): A total shoulder arthroplasty apparatus for recreating an anatomic proximal humeral configuration, comprising:

a stemless humeral head fixation configured for fixation to a previously cut proximal humeral surface, wherein the humeral head fixation includes a humeral head including a base surface configured for cement or ingrowth fixation, or both, and a non stem-bearing, stabilizing, non-intramedilary base extension including multiple fins protruding therefrom configured for impaction into a cancellous region of the cut humeral surface, wherein the base surface of the humeral head is configured to contact or substantially mate with the cut humeral surface when coupled therewith and the non-intramedullary base extension is impacted into the cancellous region, and

wherein the multiple fins are formed to have a cruciform shape and are uniformly planar along their entire extents and directly intersect at a center of the base surface, said center having a diameter that is approximately equal to a thickness of each of said fins, such that each said multiple planar fin protrudes radially along a plane from the center of the base surface where it intersects with each of the other fins.

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Claim 9 (Original): The apparatus of Claim 8, wherein the protruding base extension includes two or more linear extensions for rotational stabilization.

Claim 10 (Previously presented): The apparatus of any of Claims 1 or 8, wherein a periphery of the humeral head fixation is formed to match cortical margins of the cut humeral surface.

Claim 11 (Previously presented): The apparatus of any of Claims 1 or 8, wherein the humeral head fixation is configured to be attached to the humeral surface using an adhesive.

Claim 12 (Original): The apparatus of Claim 11, wherein the adhesive is surgical cement.

Claim 13 (Previously presented): The apparatus of any of Claims 1 or 8, wherein the humeral head fixation is configured to be attached to the humeral surface by press-fitting.

Claim 14 (Previously presented): The apparatus of any of Claims 1 or 8, wherein a periphery of the base of the humeral head fixation is formed to match a specific shape and size of the anatomic neck of a specific humeral surface.

Claim 15 (Previously presented): The apparatus of any of Claims 1 or 8, further comprising a template punch configured to be inserted into the cut humeral surface, wherein the base extension is a total or partial male complement to a female template punch.

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Claim 16 (Previously presented): A total shoulder arthroplasty apparatus for recreating an anatomic proximal humeral configuration, comprising:

a stemless humeral head fixation configured for fixation to a flat cut proximal humeral surface, wherein the humeral head fixation includes a humeral head including a base surface configured for cement or ingrowth fixation, or both, and a rotationally-stabilizing, non-intramedullary base extension protruding therefrom including multiple fins configured for impaction into a cancellous, non-intramedullary region of the cut humeral surface, wherein the base surface of the humeral head is configured to contact or substantially mate with the cut humeral surface when coupled therewith and the non-intramedullary base extension is impacted into the cancellous region, and

wherein the multiple fins are formed to have a cruciform shape and are PAGE 9/9 * RCVD AT 10/6/2005 6:26:17 PM [Eastern Daylight Time] * SVR:USPTO-EFXRF-6/27 * DNIS:2738300 * CSID:4158362501 * DURATION (mm-ss):07-14